Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Meets ASE Task:** (A1-B-1) P-1 Identify cylinder head and valve train components and configurations.

**Cylinder Head Specifications**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**[ ]  1.** Type of material: **[ ]** cast iron or **[ ]** aluminum alloy

**[ ]  2.** What is the maximum allowable surface variation (out-of-flat)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  3.** Valve seat runout (maximum): \_\_\_\_\_\_\_\_\_\_\_

**[ ]  4.** Intake valve seat angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  5.** Intake valve face angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  6.** Intake valve seat width: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  7.** Exhaust valve seat angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  8.** Exhaust valve face angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  9.** Exhaust valve seat width: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  10.** Type of valve guide:

 **[ ]** integral (cast iron heads only)

 **[ ]** powdered metal

 **[ ]** other (specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  11.** Valve guide bore diameter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  12.** Minimum valve margins: intake valve \_\_\_\_\_\_\_\_\_\_ exhaust valve \_\_\_\_\_\_\_\_\_\_

**[ ]  13.** Type of valve rotators:

 **[ ]** positive on exhaust valve only

 **[ ]** free type (keepers touching together)

 **[ ]** not used on this engine

**[ ]  14.** Location of valve rotators:

 **[ ]** above the valve spring

 **[ ]** under the valve spring

**[ ]** not used on this engine